

## Section 5: Butane, Ethane, and Propane

		36 column 1 <b>Butane</b> as liquefied petroleum gas (LPG) or natural gas liquid (NGL)	37 column 2 <b>Ethane</b> as liquefied petroleum gas (LPG) or natural gas liquid (NGL)	38 column 3 <b>Propane</b> as liquefied petroleum gas (LPG) or natural gas liquid (NGL)
<b>47.</b>	Was this energy source (column) either purchased or consumed in this establishment during 1998?	000 1 9 Yes Go to question 48 2 9 No Go to next column	000 1 9 Yes Go to question 48 2 9 No Go to next column	000 1 9 Yes Go to question 48 2 9 No Go to question 56, next page
<b>48.</b>	Enter quantity purchased by, and delivered to, this establishment in 1998, regardless of when payment was made.  Include quantities that were purchased for any onsite use, e.g., process heating or cooling, building heating or cooling, machine drive, or as raw material input to any manufacturing operation (feedstock).  Exclude quantities: 1) purchased centrally within your company, 2) delivered from other establishments of your company, or 3) for which payment was made in-kind.	010 Gallons	010 Gallons	010 Gallons
<b>49.</b>	Enter total expenditures, including taxes and delivery charges, for the quantity reported in question 48.  Include all expenditures regardless of when payment was made.	020 \$ U.S. Dollars	020 \$ U.S. Dollars	020 \$ U.S. Dollars
<b>50.</b>	Enter total quantity of transfers in and central purchases received in this establishment in 1998.  Include quantities: 1) delivered from any other establishment(s) in your company, 2) transferred from other establishments of your company for which payment was not made, 3) purchased centrally within your company, separate from this establishment, or 4) for which payment was made in-kind.  Exclude quantities reported in question 48.	030 Gallons	030 Gallons	030 Gallons
<b>51.</b>	Enter quantity that was both produced onsite in 1998 as a product, a byproduct, or a waste material, and was at least partially consumed onsite (as a fuel or nonfuel).	040 Gallons	040 Gallons	040 Gallons

Continue to next page

## Section 5: Butane, Ethane, and Propane, cont.

	Cen- sus use only	36 <i>column 1</i> <b>Butane</b> -	37 <i>column 2</i> <b>Ethane</b> -	38 <i>column 3</i> <b>Propane</b> -
<b>52.</b> Enter quantity consumed as a fuel for the production of heat, steam, power, or the generation of electricity onsite at this establishment in 1998.  Include all process uses such as process heating, process cooling, and machine drive and all nonprocess uses such as facility heating, ventilation and air conditioning.  Include fuel consumed by vehicles intended primarily for use onsite, e.g., forklifts, intra-plant shuttles, loaders and other materials-handling equipment operated solely within the boundaries of the establishment site.	060	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
<b>53.</b> Enter quantity consumed for any purpose <u>other than fuel use</u> at this establishment in 1998.  Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment.  Exclude all offsite dispositions such as sales and transfers to other establishments.	070	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
<b>54.</b> Enter the quantity shipped offsite from this establishment to any other establishment (manufacturing or nonmanufacturing) in 1998.	080	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons	<input style="width: 100px; height: 20px;" type="text"/> Gallons
Go to question 47, next column    Go to question 47, next column    Go to question 56				
<b>55.</b> < Answer questions 47 through 54 for all energy sources (columns).  < Then go to question 56.				
<b>56.</b> Sum the quantities reported in all 3 columns in question 52 to provide the total amount of butane, ethane, and propane consumed as a fuel in this establishment in 1998. (If none, enter zero.)  <b>P</b> Copy this quantity to question 182, column 1, upper box, page 43.	36062	<b>Total Butane, Ethane, &amp; Propane</b> <input style="width: 150px; height: 20px; border: 2px solid black;" type="text"/> Gallons <b>Copy to question 182, column 1, upper box, page 43.</b>		

Go to question 57, Section 6, next page

## Section 6: LPG Mixtures and Other LPG and NGL

		34	35
		Mixtures of Butane, Ethane, and Propane	Other Liquefied Petroleum Gases (LPG) and Natural Gas Liquids (NGL) e.g., butylene, ethylene, and propylene
		Census use only	
57.	Was this energy source (column) either purchased or consumed in this establishment during 1998?	000	
		<div style="text-align: center;">                     -  <input type="text" value="1 9 Yes"/>                      Go to question                      58                 </div>	<div style="text-align: center;">                     -  <input type="text" value="1 9 Yes"/>                      Go to question                      58                 </div>
		<div style="text-align: center;"> <input type="text" value="2 9 No"/>                      Go to next                      column                 </div>	<div style="text-align: center;"> <input type="text" value="2 9 No"/>                      Go to question                      66, next page                 </div>
58.	Enter quantity purchased by, and delivered to, this establishment in 1998, regardless of when payment was made.	010	
	<p>Include quantities that were purchased for any onsite use, e.g., process heating or cooling, building heating or cooling, machine drive, or as raw material input to any manufacturing operation (feedstock).</p> <p>Exclude quantities: 1) purchased centrally within your company, 2) delivered from other establishments of your company, or 3) for which payment was made in-kind.</p>	<input type="text"/> Gallons	<input type="text"/> Gallons
59.	Enter total expenditures, including taxes and delivery charges, for the quantity reported in question 58.	020	
	<p>Include all expenditures regardless of when payment was made.</p>	<input type="text" value="\$"/> U.S. Dollars	<input type="text" value="\$"/> U.S. Dollars
60.	Enter total quantity of transfers in and central purchases received in this establishment in 1998.	030	
	<p>Include quantities: 1) delivered from any other establishment(s) in your company, 2) transferred from other establishments of your company for which payment was not made, 3) purchased centrally within your company, separate from this establishment, or 4) for which payment was made in-kind.</p> <p>Exclude quantities reported in question 58.</p>	<input type="text"/> Gallons	<input type="text"/> Gallons
61.	Enter quantity that was both produced onsite in 1998 as a product, a byproduct, or a waste material, and was at least partially consumed onsite (as a fuel or nonfuel).	040	
		<input type="text"/> Gallons	<input type="text"/> Gallons

Continue to next page

## Section 6: LPG Mixtures and Other LPG & NGL, cont.

		34 <b>Mixtures of Butane, Ethane, and Propane</b> —	35 <b>Other LPG and NGL</b> —
<b>62.</b> Enter quantity consumed as a fuel for the production of heat, steam, power, or the generation of electricity onsite at this establishment in 1998.  Include all process uses such as process heating, process cooling, and machine drive and all nonprocess uses such as facility heating, ventilation and air conditioning.  Include fuel consumed by vehicles intended primarily for use onsite, e.g., forklifts, intra-plant shuttles, loaders and other materials-handling equipment operated solely within the boundaries of the establishment site.	Census use only  060	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Gallons	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Gallons
<b>63.</b> Enter quantity consumed for any purpose <u>other than fuel use</u> at this establishment in 1998.  Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment.  Exclude all offsite dispositions such as sales and transfers to other establishments.	070	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Gallons	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Gallons
<b>64.</b> Enter the quantity shipped offsite from this establishment to any other establishment (manufacturing or nonmanufacturing) in 1998.	080	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Gallons <b>Go to question 57, next column</b>	<div style="border: 1px solid black; height: 20px; width: 100%;"></div> Gallons <b>Go to question 66</b>
<b>65.</b> < Answer questions 57 through 64 for both energy sources (columns).  < Then go to question 66.			
<b>66.</b> Sum the quantities reported in both columns in question 62 to provide the total amount of LPG mixtures and other LPG and NGL consumed as a fuel in this establishment in 1998. (If none, enter zero.)  <b>P</b> Copy this quantity to question 182, column 1, lower box, page 43.	34062	<b>Total LPG Mixtures and Other LPG and NGL</b> <div style="border: 2px solid black; height: 20px; width: 100%;"></div> Gallons <b>Copy to question 182, column 1, lower box, page 43</b>	

Go to question 67, Section 7, next page

## Section 7: Acetylene, Hydrogen, and Waste & Byproduct Gases

		64	63	62
	Cen- sus use only	Acetylene	Hydrogen	Waste and Byproduct Gases (e.g., refinery gas, vent gas, off gas, plant gas, still gas)
		-	-	-
<b>67.</b>	Was this energy source (column) either purchased or consumed in this establishment during 1998?	000	1 9 Yes Go to question 68	1 9 Yes Go to question 68
		2 9 No Go to next column	2 9 No Go to next column	2 9 No Go to Section 8, page 21
<b>68.</b>	Enter quantity purchased by, and delivered to, this establishment in 1998, regardless of when payment was made.  Include quantities that were purchased for any onsite use, e.g., process heating or cooling, building heating or cooling, machine drive, or as raw material input to any manufacturing operation (feedstock).  Exclude quantities: 1) purchased centrally within your company, 2) delivered from other establishments of your company, or 3) for which payment was made in-kind.	010		
		Cubic Feet	Million Btu	Million Btu
<b>69.</b>	Enter total expenditures, including taxes and delivery charges, for the quantity reported in question 68.  Include all expenditures regardless of when payment was made.	020	\$	\$
		U.S. Dollars	U.S. Dollars	U.S. Dollars
<b>70.</b>	Enter total quantity of transfers in and central purchases received in this establishment in 1998.  Include quantities: 1) delivered from any other establishment(s) in your company, 2) transferred from other establishments of your company for which payment was not made, 3) purchased centrally within your company, separate from this establishment, or 4) for which payment was made in-kind.  Exclude quantities reported in question 68.	030		
		Cubic Feet	Million Btu	Million Btu

Continue to next page

## Section 7: Acetylene, Hydrogen, and Waste & Byproduct Gases, cont.

	Cen- sus use only	64 <b>Acetylene</b> -	63 <b>Hydrogen</b> -	62 <b>Waste and Byproduct Gases</b> -
<b>71.</b> Enter quantity that was both produced onsite in 1998 as a product, a byproduct, or a waste material, and was at least partially consumed onsite (as a fuel or nonfuel).	040	<input style="width: 100px; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100px; height: 20px;" type="text"/> Million Btu	<input style="width: 100px; height: 20px;" type="text"/> Million Btu
<b>72.</b> Does the quantity reported in question 71 represent the product or byproduct <u>of another energy source consumed onsite?</u>	050	<div style="border: 1px solid black; padding: 5px; display: inline-block; width: 150px;"> <sup>1</sup> <b>9</b> Yes, product or byproduct <sup>2</sup> <b>9</b> No         </div>		<div style="border: 1px solid black; padding: 5px; display: inline-block; width: 150px;"> <sup>1</sup> <b>9</b> Yes, product or byproduct <sup>2</sup> <b>9</b> No         </div>
<b>73.</b> Enter quantity consumed as a fuel for the production of heat, steam, power, or the generation of electricity onsite at this establishment in 1998.  <small>Include all process uses such as process heating, process cooling, and machine drive and all nonprocess uses such as facility heating, ventilation and air conditioning.</small>	060	<input style="width: 100px; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100px; height: 20px;" type="text"/> Million Btu	<input style="width: 100px; height: 20px;" type="text"/> Million Btu
<b>74.</b> Enter quantity consumed for any purpose <u>other than fuel use</u> at this establishment in 1998.  <small>Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment.</small>  <small>Exclude all offsite dispositions such as sales and transfers to other establishments.</small>	070	<input style="width: 100px; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100px; height: 20px;" type="text"/> Million Btu	<input style="width: 100px; height: 20px;" type="text"/> Million Btu
<b>Go to Section 8, next page</b>				
<b>75.</b> Enter the quantity shipped offsite from this establishment to any other establishment (manufacturing or nonmanufacturing) in 1998.	080	<input style="width: 100px; height: 20px;" type="text"/> Cubic Feet	<input style="width: 100px; height: 20px;" type="text"/> Million Btu	
		Go to question 67, next column	Go to question 67, next column	
<b>76.</b> < Answer questions 67 through 75 for all energy sources (columns).  < Then go to question 77, Section 8, next page.				

## Section 8: Diesel Fuel, Distillate Fuel Oil, and Residual Fuel Oil

	28 column 1	29 column 2	21 column 3
Cen- sus use only	<b>Diesel Fuel</b> excluding highway usage	<b>Distillate Fuel</b> <b>Oil</b> (Numbers 1, 2, and 4)	<b>Residual Fuel</b> <b>Oil</b> (Numbers 5, 6, Navy Special, and Bunker C)
<b>77.</b>	000	000	000
Was this energy source (column) either purchased or consumed in this establishment during 1998?	<div>1 9 Yes</div> <div>Go to question 78</div>	<div>1 9 Yes</div> <div>Go to question 78</div>	<div>1 9 Yes</div> <div>Go to question 78</div>
	<div>2 9 No</div> <div>Go to next column</div>	<div>2 9 No</div> <div>Go to next column</div>	<div>2 9 No</div> <div>Go to question 87, page 23</div>
<b>78.</b>	010	010	010
Enter quantity purchased by, and delivered to, this establishment in 1998, regardless of when payment was made.			
	Barrels	Barrels	Barrels
<p>Include quantities that were purchased for any onsite use, e.g., process heating or cooling, building heating or cooling, machine drive, or as raw material input to any manufacturing operation (feedstock).</p> <p>Exclude quantities: 1) purchased centrally within your company, 2) delivered from other establishments of your company, or 3) for which payment was made in-kind.</p>			
<b>79.</b>	020	020	020
Enter total expenditures, including taxes and delivery charges, for the quantity reported in question 78.			
	U.S. Dollars	U.S. Dollars	U.S. Dollars
Include all expenditures regardless of when payment was made.			
<b>80.</b>	030	030	030
Enter total quantity of transfers in and central purchases received in this establishment in 1998.			
	Barrels	Barrels	Barrels
<p>Include quantities: 1) delivered from any other establishment(s) in your company, 2) transferred from other establishments of your company for which payment was not made, 3) purchased centrally within your company, separate from this establishment, or 4) for which payment was made in-kind.</p> <p>Exclude quantities reported in question 78.</p>			
<b>81.</b>	040	040	040
Enter quantity that was both produced onsite in 1998 as a product, a byproduct, or a waste material, and was at least partially consumed onsite (as a fuel or nonfuel).			
	Barrels	Barrels	Barrels

Continue to next page

## Section 8: Diesel Fuel, Distillate Fuel Oil, and Residual Fuel Oil, cont.

	Cen- sus use only	28 column 1 <b>Diesel Fuel</b> -	29 column 2 <b>Distillate Fuel Oil</b> -	21 column 3 <b>Residual Fuel Oil</b> -
<b>82.</b> Enter quantity consumed as a fuel for the production of heat, steam, power, or the generation of electricity onsite at this establishment in 1998.	060	<input type="text"/> Barrels	<input type="text"/> Barrels	<b>Residual Fuel Oil</b> <input type="text"/> Barrels <b>Copy to question 183, column 3, page 44</b>
Include all process uses such as process heating, process cooling, and machine drive and all nonprocess uses such as facility heating, ventilation and air conditioning.				
Include fuel consumed by vehicles intended primarily for use onsite, e.g., forklifts, intra-plant shuttles, loaders and other materials-handling equipment operated solely within the boundaries of the establishment site.				
<b>83.</b> Enter quantity consumed for any purpose <u>other than fuel use</u> at this establishment in 1998.	070	<input type="text"/> Barrels	<input type="text"/> Barrels	<input type="text"/> Barrels
Include all quantities consumed as lubricants, solvents, or as feedstocks, raw materials, additives, or ingredients for products manufactured by this establishment.				
Exclude all offsite dispositions such as sales and transfers to other establishments.				
<b>84.</b> Enter the quantity shipped offsite from this establishment to any other establishment (manufacturing or nonmanufacturing) in 1998.	080	<input type="text"/> Barrels	<input type="text"/> Barrels	<input type="text"/> Barrels
<b>85.</b> Enter the shell or design storage capacity of all the storage tanks located onsite as of 12/31/98 for this energy source.	090	<input type="text"/> Barrels	<input type="text"/> Barrels	<input type="text"/> Barrels
Include the onsite capacity of 1) all storage facilities regardless of the intended disposition of the energy source--include both product storage tanks and tanks dedicated for onsite use, and 2) dedicated or leased for storage of energy sources owned by other establishments.				
		<b>Go to question 77, next column</b>	<b>Go to question 77, next column</b>	<b>Go to question 87, next page</b>
<b>86.</b> < Answer questions 77 through 85 for all energy sources (columns).				
< Then go to question 87, next page.				

Continue to next page



## Section 8: Diesel Fuel, Distillate Fuel Oil, and Residual Fuel Oil, cont.

**87.**

Sum the quantities reported in columns 1 and 2 in question 82 to provide the total diesel fuel and distillate fuel oil consumed as a fuel in this establishment in 1998.  
(If none, enter zero.)

Census  
Use Only

22060

**Total Diesel Fuel and Distillate Fuel Oil**

Barrels

**Copy to question 183,  
column 2, page 44**

**P** Copy this quantity to question 183, column 2, page 44.

**Go to question 88, Section 9, next page**